

## CLAIMS

What is claimed is:

- 1           1.     A spring strut unit comprising:  
2                 a cylinder;  
3                 a chamber formed around said cylinder, the chamber being at least  
4     partially filled with an initially formable material;  
5                 a spring plate having a sleeve section fitted around said cylinder and  
6     against said initially formable material so that said initially formable material, in a  
7     solidified state, transmits supporting forces along a path of force transmission from the  
8     cylinder to the spring plate; and  
9                 means for preventing rotation of the spring plate with respect to the  
10    cylinder in the path of force transmission.
- 1           2.     A spring strut unit as in claim 1 further comprising a support ring  
2     permanently connected to said cylinder, said support ring forming said chamber.
- 1           3.     A spring strut unit as in claim 2 wherein said support ring comprises  
2     a bottom fixed to said cylinder and a sleeve extending from said bottom around said  
3     cylinder, at least part of said sleeve section being received in said sleeve.
- 1           4.     A spring strut unit as in claim 2 wherein said support ring comprises  
2     a connecting opening for receiving said initially formable material.

1                   5.     A spring strut unit as in claim 2 wherein said sleeve section  
2 comprises a circumferentially limited anti-rotation profile which receives said initially  
3 formable material.

1                   6.     A spring strut unit as in claim 2 wherein said support ring comprises  
2 a circumferentially limited engagement profile which receives said initially formable  
3 material.

1                   7.     A spring strut unit as in claim 6 wherein said engagement profile  
2 comprises at least one pocket.

1                   8.     A spring strut unit as in claim 7 wherein said support ring has an  
2 edge, said at least one pocket extending only to a point below said edge.

1                   9.     A spring strut unit as in claim 5 wherein said sleeve section has an  
2 inside wall, said anti-rotation profile being provided in said inside wall.

1                   10.    A spring strut unit as in as in claim 6 wherein said support ring  
2 comprises a bottom fixed to said cylinder and a sleeve extending from said bottom  
3 around said cylinder, at least part of said sleeve section being received in said sleeve,  
4 said engagement profile being provided in the bottom of the support ring.

1                   11.    A spring strut unit as in claim 5 wherein said anti-rotation profile  
2 comprises at least one opening in the sleeve section of the spring plate.

1                   12.    A spring strut unit as in claim 5 wherein said support ring comprises  
2   a circumferentially limited engagement profile which receives said initially formable  
3   material, said unit further comprising an anti-rotation sleeve which engages in the anti-  
4   rotation profile of the spring plate and in the engagement profile of the support ring.

1                   13.    A spring strut unit as in claim 12 wherein said sleeve section has an  
2   end surface, said support ring comprises a connecting opening for receiving said  
3   initially formable material, and said anti-rotation sleeve has a flow connection between  
4   the end surface of the sleeve section and the connecting opening in the support ring.

1                   14.    A spring strut unit as in claim 12 wherein said support ring  
2   comprises a circumferentially limited engagement profile which receives said initially  
3   formable material, said anti-rotation sleeve being supported in a permanent axial  
4   position inside the engagement profile of the support ring.

1                   15.    A spring strut unit as in claim 5 wherein said support ring comprises  
2   a circumferentially limited engagement profile which receives said initially formable  
3   material, said engagement profile being received in said anti-rotation profile.

1                   16.    A spring strut unit as in claim 15 wherein the support ring has at  
2   least one radial projection which engages in the anti-rotation profile of the spring plate.

1                   17.    A spring strut unit as in claim 16 wherein the radial projection is  
2   located outside the chamber.